

# PROCEEDINGS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON

## SERIES C. JOURNAL OF MEETINGS

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VOLUME 23

No. 9, 1958

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### ORDINARY MEETING

WEDNESDAY, 21st JANUARY, 1959, at 5.30 p.m.

#### AGENDA

1. Proceedings of the Ordinary Meeting held on 3rd December, 1958.
2. Recommendations of candidates for Fellowship. First reading.
3. Recommendations of candidates for Fellowship. Second reading.
4. Announcement of election of new Fellows.
5. Additions to the Library (see p. 49).
6. Nomination of Officers and Council for 1959. Second reading.
7. Admission of Fellows.
8. Exhibits.
9. Communications.

#### The Nature Conservancy

In pursuance of a suggestion that Fellows of the Society would appreciate an opportunity of learning more of the aims and work of the Nature Conservancy, particularly with regard to its entomological aspect, Dr. E. B. Worthington, the Deputy Director-General of the Conservancy, and Dr. N. W. Moore of the Furzebrook Research Station have kindly agreed to speak on the following subjects :

- (1) **Dr. E. B. Worthington.**—The Nature Conservancy—its scope and limitations.
- (2) **Dr. N. W. Moore.**—Conservation of insects in southwest England.

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TEA will be served in the Library before the meeting.

## NOTICES

**Second Czechoslovak Entomological Conference, Prague, September, 1959**

International Symposium on the problems of ontogenetic development of insects, with special reference to experimental methods.

The attention of Fellows is drawn to the above Symposium, full details of which may be obtained from the Secretariat of the Symposium, Entomological Laboratory, Czechoslovak Academy of Science, 7 Viničná, Prague 2, Czechoslovakia.

**Forthcoming Ordinary Meetings**

*4th February, 1959*

**Annual Meeting, including Presidential Address.**

*4th March, 1959*

- (1) **Professor V. B. Wigglesworth.**—Some histological studies on insects.
- (2) **Mr. P. F. Mattingly.**—The natural history of mosquito-borne diseases.

**PROCEEDINGS OF THE ORDINARY MEETING HELD ON 3RD DECEMBER, 1958**

Professor O. W. RICHARDS, President, in the Chair.

Present, 65 Fellows and 16 Visitors.

The minutes of the Ordinary Meeting held on 5th November were confirmed and signed by the President.

The names of the following candidates for election were read for the first time: Dr. Elsie Collyer; Mr. Donald Richard Dietlein; Miss Marion Gratwick; Mr. Philip John Marsh Greenslade; M. Jacques Hamon; Miss Audrey D. Hancock; Mr. Joshua Hudson; Mr. Charles W. O'Brien, B.A., M.S.; Mr. John Richard Parnell; Mr. Keith Eric Wellesley Salter; Mr. Herbert William Spencer, B.Sc.; Dr. John Hilton Sudd; and Mr. Jan Christopher Taylor.

For the second time (taken as read): Mr. Yash Pal Beri; Mr. Dennis Boocock; Dr. Giuseppe Colombo; Dr. Chang Whan Kim; Mr. Peter Lorne Mathias; and Mr. Ian Alexander Morrison.

The Secretary read the names of the following newly elected Fellows of the Society: Mr. Alasdair Eoin Aston, B.A., 1 Aysgarth Road, Dulwich Village, London, S.E.21; Mr. Atiqud-Din, c/o Unwanud-Din Khan, Superintendent Comptroller's Office, Northern Region, Peshawar, West Pakistan; Mr. Edward Lawrence Birchall-Kent, 4, Fircroft Avenue, North Lancing, Sussex; Mr. Alfred Roy Brimblecombe, M.Sc., c/o Department of Agriculture and Stock, William Street, Brisbane, Queensland, Australia; Mr. Edward Meldrum Buchan, 7 Rose Walk, Purley, Surrey; Mr. F. D. Buck, 36 Besant Court, Newington Green Road, London, N.1; Dr. Walter A. Connell, B.S., M.S., Ph.D., 120 Townsend Road, Newark, Delaware, U.S.A.; Mr. Abdel Hahman Ahmad Donia, Faculty of Agriculture, University of Alexandria, Egypt; Mr. David Gordon Howarth Halstead, 1 Barry Avenue, Windsor, Berks.; Mr. Geoffrey Derek Heathcote, M.Sc., 41 Cowper Road, Harpenden, Herts.; Mr. Michael Joseph van den Heuvel, 7 Warwick House, Worple Road, London, S.W.19; Mr. Leslie Arthur Lickerish, M.A., B.Sc., 33 Hatherall Road, Maidstone, Kent; Dr. Ian Murray Mackerras, F.R.A.C.P., F.A.A., Queensland Institute of Medical Research, Herston Road, Herston, N.9, Brisbane, Queensland, Australia; Mr. Dennis Hugh Murphy, Department of Zoology, Science Laboratories, South Road, Durham; Mr. Maurice George Noll,



6 College Road, Cheltenham, Glos.; Mr. George Henry Pullen, 8 Chestnut Close, Apton Road, Bishops Stortford, Herts.; Mr. Yugeshwar Prasad Shreevastava, Extension Training Centre, Ranchi, Bihar, India; Mr. Edmund Robinson Watson, Beamsley Mill, Bolton Abbey, Nr. Skipton, Yorks.; and Mr. Bhagwan Krishna Varma, Plant Protection Directorate, Ministry of Agriculture, Delhi, India.

Thanks were voted to donors of gifts to the Library since the last meeting.

The Secretary read for the first time the following names of Fellows nominated by the Council to serve as Officers and Council for 1959 :

*President:* Dr. B. P. Uvarov, C.M.G., F.R.S.

*Treasurer:* Dr. N. E. Hickin.

*Secretary:* Mr. Paul Freeman

*Editor:* Mr. W. H. Potts

*Other Members of Council:*

Professor D. S. Bertram  
Dr. C. G. Butler  
Dr. A. M. Easton  
Dr. L. G. Higgins  
Dr. B. M. Hobby  
Dr. J. S. Kennedy  
Dr. A. M. Massee, O.B.E.  
Mr. H. Oldroyd  
Mr. E. O. Pearson  
Professor O. W. Richards  
Dr. N. Waloff  
Mr. M. J. Way  
Dr. C. B. Williams, F.R.S.

Alternative nominations, supported by four properly qualified Fellows of the Society, should reach the Secretary before the meeting to be held on 21st January, 1959.

Mr. C. V. A. Adams, Mr. F. D. Buck, Dr. C. L. Remington and Mr. S. A. Smith signed the Obligation Book and were admitted Fellows of the Society.

**Mr. R. B. Benson** said that in the discussion following Mr. Collingwood's paper on *Formica* species in Britain at the previous meeting, a speaker had reported that Dr. V. H. Chambers had found *Formica sanguinea* Latreille in Hertfordshire (*antea*, p. 41, 4 lines from bottom). Dr. Chambers had since written to say that he had never found *F. sanguinea* in Hertfordshire and that there was no doubt that the speaker had been referring to the locality for this species at Baker's Wood, Heath and Reach, Bedfordshire.

**Dr. K. U. Clarke** and **Miss J. M. Dutton** (a visitor) exhibited X-ray photographs and graphs showing changes in weight and volume, illustrating the mechanisms of size increase at ecdyses in a terrestrial (*Locusta migratoria* L.) and an aquatic (*Nepa cinerea* L.) insect.

**Professor G. C. Varley** exhibited and showed explanatory coloured slides of various stages of insects living at the roots of reed-grass. He said that in a slow stream at Ottmoor, Oxon., the early stages of three kinds of fly—*Chrysogaster hirtella* Loew (Syrphidae), *Notiphila riparia* Mg. (Ephydriidae), and *Erioptera squalida* Loew (Tipulidae)—live together with the larvae of the Chrysomelid beetle *Donacia semicuprea* Panz., and like them get their oxygen from the air spaces in the roots of reed-grass, *Glyceria maxima*, with their variously modified hind spiracles. The pupal stage of *Erioptera squalida* is also provided with dagger-



like prothoracic spiracles, which can be driven into the plant roots by flexing a joint between the prothorax and mesothorax. Such a joint is unusual in pupae.

The President asked whether this habit had been known before, to which Professor Varley replied that the larva of a species reported as *Trichosticta flavescens* was thought to breathe in this way.

Dr. H. E. Hinton added that in this country there were two species with very similar pupae and larvae, *E. squalida* and *E. flavescens*.

Dr. D. J. Lewis showed larvae and pupae of members of the *Simulium neavei* Roubaud complex from Amani, Tanganyika, attached to crabs, and discussed possible advantages of this association to the *Simulium*. The larvae did not appear to share the food of the crabs, and the finding of many larvae in a fish, *Amphilius krefftii* Boulenger (identified by Dr. E. M. Trewavas), suggested that the larvae receive little protection against predators. A species of crab which does not harbour larvae was also shown.

Mr. P. F. Mattingly pointed out a further advantage in that crabs dislike D.D.T. and therefore left the water. The President having commented that the crab was better able to survive out of water, Dr. Lewis added that the *Simulium* larvae could also survive some time in humid air. He also said, in reply to enquiries by Dr. C. B. Williams, that the larvae were only on crabs associated with swift-flowing water. Mr. Mattingly recalled that an East African mosquito species had also been seen to oviposit on crabs, and mosquito larvae were found in crab holes.

Mr. R. W. J. Uffen showed examples of the overwintering brood of *Paroxyna misella* Loew, whose larvae he believed to have fed in the flower-heads of *Artemisia vulgaris*. Mr. Uffen said, in reply to an enquiry by Professor Varley, that both sexes occurred in both generations.

Mr. H. Oldroyd exhibited specimens of *Thaumastocera cervaria* Ségué (Diptera : Tabanidae) taken in the Mpanga Forest of Uganda by Dr. A. J. Haddow and Dr. P. S. Corbet, and also in Ghana by Mr. J. Bowden. Apart from these specimens *Th. cervaria* is known only from a single female, and *Th. boueti* from a single male. The third known species, *Th. akwa*, is reasonably common throughout the equatorial forest belt. Dr. Haddow's specimens were taken at a mercury-vapour lamp in and above the forest canopy. The range of variation they show suggests that there are really only two species of *Thaumastocera* : *cervaria* which is mainly nocturnal, and *akwa* which is mainly diurnal, though it sometimes comes to light. The larvae of this and related genera live in rot-holes in trees and similar localities, feeding on other larvae, including those of Stratiomyiidae and Syrphidae.

Dr. D. J. Lewis said he had once been puzzled by a single specimen of this genus taken in Sierra Leone, and reported to have been sucking blood. Mr. Oldroyd said that females of *Thaumastocera* he had examined had no mandibles. He continued, in reply to an enquiry by Professor Varley, that the species had blade-like maxillae but they were soft and had no backward-projecting teeth.

Mr. W. V. Harris exhibited the leg of a chair heavily damaged by the dry-wood termite, *Cryptotermes cavifrons* Holmgren, recently obtained in Hamilton, Bermuda. Colour transparencies were used to illustrate further remarks on the damage done by termites to buildings in the West Indies. Mr. Harris added that the cement pillars shown in the photographs were not a perfect prevention but gave an opportunity for the termites to be detected before they reached the wooden structure.

The Secretary exhibited, on behalf of Mr. T. G. Howarth, a bred specimen of *Arctia caja* L. (the Garden Tiger Moth) exhibiting extreme homoeosis in both hind wings, i.e. there were patches of brown and white corresponding to the fore wing markings situated in the basal and discal areas and extending outwards to the anal angles. It was of interest that these were arranged more or less sym-



metrically, as in most specimens of Lepidoptera with this abnormality it is more usual for one wing only to be affected.

**Dr. C. B. Williams** exhibited :

(1) Specimens of blood-sucking flies of the genus *Simulium* caught in a light trap in the Spey Valley at Kincaig, Inverness-shire. Regular trapping every night of the year for over three years had been carried out and over 14,000 flies of ten different species had been captured. The seasonal history of each had been demonstrated, some were quite active as late as December, and in one mild winter individuals were captured in every month. Many of the females captured were engorged and with the help of the Lister Institute the blood source had been identified in many cases. The work had been carried out with the co-operation of Dr. Lewis Davies, formerly of Durham University and now in Canada.

Mr. W. H. Potts asked whether the night flying species of *Simulium* had fed on anything other than birds and whether the day flying species were also found in the light trap. Dr. Williams said that all local species came to the trap and they fed mostly on mammals.

Dr. Lewis remarked on the possibilities which opened up if African *Simulium* could be attracted to light—they were seldom found in ordinary light traps. The President said that it was probably the ultra violet light which attracted the specimens to Dr. Williams' trap.

Dr. Williams said, in reply to an enquiry by Mrs. Richardson, that the species attacked included oxen, sheep and domestic animals.

(2) Sheets of two types of white foamed plastic material which might possibly replace cork in insect boxes and cabinets. The advantages were that they were light, held the pins, did not need papering, were more even than cork, balsa or peat, and were less moisture absorbing in damp air; the price was also low. The materials were soluble in benzine, so that the technique of dissolving naphthalene in benzine could not be used with these materials. Further experiment was needed but the possibility of an all round satisfactory material was good.

Mr. Ford called attention to several disadvantages in the use of plastic foam, in that the pin holes did not close up, pinned specimens fell loose in the post, and the material tended to become hard and rigid after about a year.

**Dr. H. E. Hinton** exhibited a composite photograph of a third (?) instar larva of *Simulium ornatum* Meig. taken 1-2 minutes after the cuticle of the previous instar was shed. Ecdysis involves no change in colour of the thorax and abdomen because here colour depends upon mesodermal cells (chromatocytes) containing pigment granules, and the cuticle is transparent. However, at ecdysis the head changes colour; the pigment of the head is in the cuticle. It was suggested that because chromatocytes cannot be present between a muscle and its insertion in the cuticle, and because so much of the cranial area is occupied by muscle insertions, the larva does not make use of the system of pigmentation employed for the trunk. The layer of chromatocytes on the surface of the brain was shown in the photograph. These cells are only externally visible for a short time after ecdysis before the cuticle of the head darkens.

PAUL FREEMAN, *Honorary Secretary.*

#### ADDITIONS TO THE LIBRARY

##### *Presented*

Clarke, J. F. Gates. *Catalogue of the type-specimens of Microlepidoptera in the British Museum (Natural History), described by E. Meyrick.* Vol. 3. 4to. London, 1958. [Trustees of the British Museum.]

- Harris, W. V. *Parc National de l'Upemba. Mission G. F. de Witte* (1946-49) Fasc. 52(1) *Isoptera*. 8vo. Brussels, 1958. [The Author.]
- Jacobson, M. *Insecticides from plants: a review of the literature, 1941-53*. 4to. Washington, 1958. [*Agric. Handbk. U.S. Dep. Agric.* 154.] [United States Department of Agriculture.]
- Koch, C. Tenebrionidae of Angola. *Publ. cult. Cia. Diamant. Angola* 39: 1-231, 1958. [The Publishers.]
- Mabee, W. R. & others. Locust and other insect control. *Misc. Publ. U.S. Dep. Agric.* 770: 1-147, 1958. [United States Department of Agriculture.]
- Pearson, E. O. *The insect pests of cotton in tropical Africa*. 8vo. London: Empire Cotton Growing Corp., & C.I.E., 1958. [The Author.]
- [Plavilstshikov, N. N. *Coleoptera: Cerambycidae*. Vol. 3. *Lamiinae*. Pt. 1.] 8vo. Moscow & Leningrad, 1958. [*Fauna of U.S.S.R. (N.S.)* 70.] [Academy of Sciences of U.S.S.R. By Exchange.]
- Rozen, J. G. Monographic study of the genus *Nomadopsis* Ashmead (Hymenoptera: Andrenidae). *Univ. Calif. Publ. Ent.* 15: 1-202, 1958. [The Publishers.]
- Roznowska-Feliksiakowa, J. *Periodicals and serial publications in the Library of the Institute of Zoology of the Polish Academy of Sciences: Catalogue and bibliographical notes*. 8vo. Warsaw, 1958. [Polish Academy of Sciences. By Exchange.]
- Snodgrass, R. E. Evolution of arthropod mechanisms. *Smithson. misc. Coll.* 138(2): 1-77, 1958. [The Author.]
- Timberlake, P. H. A revisional study of the bee genus *Perdita* F. Smith. (Hymenoptera, Apoidea) Pt. III. *Univ. Calif. Publ. Ent.* 14: 303-410, 1958. [The Publishers.]
- Zimmerman, E. C. *Insects of Hawaii*, Vol. 7. *Macrolepidoptera*. 8vo. Honolulu: Univ. Hawaii Pr., 1958. [The Publishers.]

#### Purchased

- Ardö, P. *Studies in the marine shore dune ecosystem, with special reference to the dipterous fauna*. 8vo. Lund, 1958. [*Opusc. Ent. Suppl.* 14.]
- Brooks, A. R. *Acridoidea of Southern Alberta, Saskatchewan and Manitoba*. (Orth.) 8vo. Ontario, 1958. [*Canad. Ent. Suppl.* 9.]
- Carthy, J. D. *An introduction to the behaviour of invertebrates*. 8vo. London: Allen & Unwin, 1958.
- Coleopterorum Catalogus. Supplementa*. ed. W. D. Hincks. Pars 51(1) *Chrysomelidae: F. Monrós*. Pars 142. *Passalidae: W. D. Hincks & J. R. Dibb*. 8vo. 's-Gravenhage: Junk, 1958.
- Elton, C. *The ecology of invasions by animals and plants*. 8vo. London: Methuen, 1958.
- Esaki, T., & others. *Icones Heterocerum Japonicorum*. Pt. II. 8vo. Hoikusha, 1958.
- Essig, E. O. *Insects and mites of western North America*. (1926) rev. ed. 8vo. New York: Macmillan, 1958.
- Inoue, H. *Check list of the Lepidoptera of Japan*. Pt. 5. *Noctuidae*. 8vo. Rikusuisha, 1958.
- Langer, T. W. *Nordens dagsommerfugle*. 4to. Copenhagen: Munksgaard, 1958.
- Moreton, B. D. Beneficial insects. *Bull. Minist. Agric. Lond.* 20: 1-49, 1958.
- Rioux, J. A. *Les Culicides du 'Midi' méditerranéen*. 8vo. Paris: Lechevalier, 1958. [*Encycl. Ent. (A)* 35.]
- Schmidt, G. *Deutsche Namen von Schadinsekten*. 8vo. Berlin, 1955. [*Mitt. Biol. Bundesanst. Land. Fortwirt., Berlin-Dahlem.* 84.]
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- Senevet, G. *Les Anophèles du globe : révision générale*. 8vo. Paris : Lechevalier, 1958. [*Encycl. Ent. (A)* 36.]
- Stichel, H. W. *Illustrierte Bestimmungstabellen der Wanzen. (Hemiptera-Heteroptera Europae)*. Hft. 28. *Liste der palaearktischen Arten (Schluss)—Index*. 8vo. Berlin-Hermsdorf, 1958.
- Weyer, F. *Bestimmungsschlüssel für die Anopheles-Weibchen und-Larven in Europa, Nordafrika u. Westasien*. (1941) 2te Aufl. 8vo. Leipzig, 1954. [*Merkbl. Nocht-Inst. Schiffs-u. Tropenkrankh., Hamburg*. 12.]

In addition, separates have been presented by Dr. D. W. Ewer ; Dr. J. E. Treherne ; United States Department of Agriculture ; Chicago Natural History Museum ; Hope Department of Entomology, Oxford ; Dr. G. A. Walton ; Dr. J. D. Gillett ; Dr. D. S. Kettle ; Miss D. J. Jackson ; Mr. J. A. L. Watson ; Miss E. N. Marks ; Professor K. Tsuneki ; Mr. J. Heath ; Bee Department, Rothamsted Experimental Station ; Mr. S. R. Bowden ; Dr. R. C. Rainey ; Dr. T. Clay and the Insect Systematics and Biological Control Unit of the Canadian Department of Agriculture, Belleville.

## NOTICES

In addition to the *Transactions and Proceedings* (Series A, B, and C), the following publications are available on application at the Society's rooms:—

### HANDBOOKS FOR THE IDENTIFICATION OF BRITISH INSECTS.

The Society has undertaken the issue of a series of publications intended to provide illustrated Keys to the whole of the British Insect Fauna so far as this is possible.

It is proposed to cover this field in a series of ten volumes, arranged as follows:—

- |                                  |                        |
|----------------------------------|------------------------|
| I. Part 1. General Introduction. | Part 9. Ephemeroptera. |
| „ 2. Thysanura.                  | „ 10. Odonata.         |
| „ 3. Protura.                    | „ 11. Thysanoptera.    |
| „ 4. Collembola.                 | „ 12. Neuroptera.      |
| „ 5. Dermaptera and Orthoptera.  | „ 13. Mecoptera.       |
| „ 6. Plecoptera.                 | „ 14. Trichoptera.     |
| „ 7. Psocoptera.                 | „ 15. Strepsiptera.    |
| „ 8. Anoplura.                   | „ 16. Siphonaptera.    |

II. Hemiptera. III. Lepidoptera. IV and V. Coleoptera.

VI. Hymenoptera: Symphyta and Aculeata.

VII. Hymenoptera: Ichneumonidea.

VIII. Hymenoptera: Cynipoidea, Chalcidoidea and Serphoidea.

IX. Diptera: Nematocera and Brachycera. X. Diptera: Cyclorrhapha.

The following parts are now available:—

- Vol. I, Part 2. Thysanura and Diplura. By M. J. Delany. Price 2s. 6d. plus postage.
- Vol. I, Part 5. Dermaptera and Orthoptera. By W. D. Hincks. Second edn. Price 6s. 0d. plus postage.
- Vol. I, Part 6. Plecoptera. By D. E. Kimmins. Price 3s. 6d. plus postage.
- Vol. I, Part 9. Ephemeroptera. By D. E. Kimmins. Price 3s. 6d. plus postage.
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- Vol. I, Part 16. Siphonaptera. By F. G. A. M. Smit. Price 20s. plus postage.
- Vol. IV, Part 1. Coleoptera: Introduction and Key to Families. By R. A. Crowson. Price 10s. plus postage.
- Vol. IV, Part 3. Coleoptera, Hydradephaga. By F. Balfour-Browne. Price 6s. plus postage.
- Vol. IV, Part 8a. Coleoptera: Staphylinidae (part). By C. E. Tottenham. Price 15s. 0d. plus postage.
- Vol. IV, Part 9. Coleoptera: Pselaphidae. By E. J. Pearce. Price 6s. plus postage.
- Vol. V, Part 5b. Coleoptera: Phalacridae. By R. T. Thompson. Price 3s. 6d. plus postage.
- Vol. V, Part 7. Coleoptera: Coccinellidae and Sphindidae. By R. D. Pope. Price 2s. 6d. plus postage.
- Vol. V, Part 9. Coleoptera: Lagriidae to Meloidae. By F. D. Buck. Price 6s. plus postage.
- Vol. V, Part 11. Coleoptera: Scarabaeoidea. By E. B. Britton. 7s. 6d. plus postage.
- Vol. V, Part 12. Coleoptera: Cerambycidae. By E. A. J. Duffy. Price 3s. 6d. plus postage.
- Vol. V, Part 15. Coleoptera: Scolytidae and Platypodidae. By E. A. J. Duffy. Price 3s. 6d. plus postage.
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- Vol. VIII, Part 2a. Hymenoptera: Chalcidoidea (part). By Ch. Ferrière & G. J. Kerrich. Price 8s. 6d. plus postage.
- Vol. VIII, Part 3d. Hymenoptera: Proctotrupoidea (part). By G. E. J. Nixon. Price 20s. 0d. plus postage.
- Vol. IX, Part 1. Diptera: Introduction and Key to Families. By H. Oldroyd. Second edn. Price 7s. 6d. plus postage.
- Vol. IX, Part 2. Diptera, Nematocera: Families TIPULIDAE to CHIRONOMIDAE. By R. L. Coe, Paul Freeman and P. F. Mattingly. Price 20s. 0d. plus postage.
- Vol. X, Part 1. Diptera: Syrphidae. By R. L. Coe. Price 17s. 6d. plus postage.
- Vol. X, Part 4a. Diptera: Cyclorrhapha (part). By F. I. van Emden. Price 20s. 0d. plus postage.

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